

## Product datasheet for **MR227513**

### **Il1r1 (NM\_001123382) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Il1r1 (NM_001123382) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Il1r1
Synonyms:	CD121a; CD121b; IL-1R1; IL-iR; Il1r-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR227513 representing NM\_001123382  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAAGTGTACTGGGGCTCATTTGTCTCATGGTGCCTCTGCTGTCGCTGGAGATTGACGTATGTACAG  
 AATATCCAAATCAGATCGTTTTTGTCTTATCTGTAAATGAAATTGATATTCGCAAGTGCTCTTACTCC  
 AAATAAAATGCACGGCGACACCATAATTTGGTACAAGAATGACAGCAAGACCCCATATCAGCGGACCGG  
 GACTCCAGGATTCATCAGCAGAATGAACATCTTTGGTTTGTACCTGCCAAGGTGGAGGACTCAGGATATT  
 ACTATTGTATAGTAAGAACTCAACTTACTGCCTCAAACTAAAGTAACCGTAACGTGTGTAGAGAATGA  
 CCCTGGCTTGTGTACAGCACACAGGCCACCTCCACAGCGGCTCCACATTGCCGGGGATGGAAGTCTT  
 GTGTGCCCTTATGTGAGTATTTTAAAGATGAAAATAATGAGTTACCCGAGGTCCAGTGGTATAAGAACT  
 GTAACCTCTGCTTCTTGACAACGTGAGCTTCTCGGAGTAAAAGATAAACTGTTGGTGAGGAATGTGGC  
 TGAAGAGCACAGAGGGGACTATATATGCCGTATGCCTATACGTTCCGGGGGAAGCAATATCCGGTCACA  
 CGAGTAATACAATTTATACAATAGATGAAAACAAGAGGGACAGACCTGTTATCCTGAGCCCTCGGAATG  
 AGACGATCGAAGCTGACCCAGGATCAATGATACAACCTGATCTGCAACGTCACGGGCCAGTCTCAGACCT  
 TGTCTACTGGAAGTGGAATGGATCAGAAATGGAATGGAATGATCCATTTCTAGCTGAAGACTATCAATTT  
 GTGGAACATCCTTCAACCAAAAAGAAAATACACACTCATTACAACACTTAACATTTCAGAAGTTAAAAGCC  
 AGTTTTATCGCTATCCGTTTATCTGTGTGTTAAGAACACAAATATTTTTGAGTCGGCGCATGTGCAGTT  
 AATATACCCAGTCCCTGACTTCAAGAATTACCTCATCGGGGGCTTTATCATCCTCAGGCACAATTGTA  
 TGCTGTGTGCATCTATAAAGTCTTCAAGTTGACATAGTGTCTTGGTACAGGGACTCTGCTCTGGTT  
 TTCTTCTTCAAAAGCTTCAGATGGAAGACATACGATGCCTATATTCTTTATCCCAAGACCTGGGAGA  
 GGGGCTCTCTCAGACTTAGATACTTTTGTCTTAACTGTTGCCTGAGGTCTTGAGGGACAGTTTGGA  
 TACAAGCTGTTTATTTATGGAAGGGATGACTATGTTGGAGAAGATACCATCGAGGTTACTAATGAAAATG  
 TAAAGAAAAGCAGGAGGCTGATTATCATTCTAGTGAGAGATATGGGAGGCTTCAAGCTGGCTGGCCAGTC  
 ATCTGAAGAGCAATAGCCATATACAATGCTCTCATCCAGGAAGGAATAAAATCGTCTGCTTGAAGTTG  
 GAGAAAATCCAAGACTATGAGAAAATGCCAGATTCTATTCAGTTCATTAAGCAGAAAACACGGAGTCATTT  
 GCTGGTCAGGAGACTTTCAAGAAAGACCACAGTCTGCAAAGACCAGGTTCTGGAAAACCTAAGATACCA  
 GATGCCAGCCCAACGGAGATCACCATTGTCTAAACACCGCTTACTAACCTGGATCCTGTGCGGGACT  
 AAGGAGAACTGCCGGCAGCAACACACTTACCCTCGGC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR227513 representing NM\_001123382  
 Red=Cloning site Green=Tags(s)

MKVLGLICLMVPLLSLEIDVCTEYPNQIVLFLSVNEIDIRKCLPLTPNKMHGDTIIWYKNSKTPISADR  
 DSRIHQNEHLWFVPAKVEDSGYCYIVRNSTYCLKTKVTVTVLENDPGLCYSTQATFPQRLHIAGDGSL  
 VCPVYSYFKDENNELPEVQWYKNCKPLLLDNVSFFGVKDKLLVRNVAEEHRGDYICRMSYFRGKQYPVT  
 RVIQFITIDENKRD RPVILSPRNETIEADPGSMIQLICNVTGQFSDLVYWKWNGSEIEWNDPFLAEDYQF  
 VEH PSTKRKYTLITTLNISEVKSQFYRYPFICVVKNTNIFESAHVQLIYPVPDFKNYLIGGFIIILTATIV  
 CCVCIYKVFKVDIVLWYRDSGFLPSKASDGKTYDAYILYPKTLGEGSFSDLDTFVKLLPEVLEGQFG  
 YKLFYIGRDDYVGEDTIEVTNENVKSRRLIIILVRDMGGFSWLQGSSEEQIAIYNALIQEGIKIVLLEL  
 EKIQDYEKMPDSIQFIKQKHGVICWSGDFQERPQSAKTRFWKNLRYQMPAQRRSPLSKHRLTLDPVRDT  
 KEKLPAAATHLPLG

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001123382

**ORF Size:** 1719 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
  5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_001123382.1](#), [NP\\_001116854.1](#)

**RefSeq Size:** 4808 bp

**RefSeq ORF:** 1722 bp

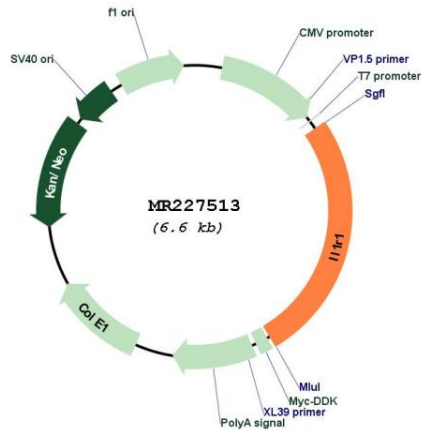
**Locus ID:** 16177

**Cytogenetics:** 1 18.81 cM

**MW:** 66.8 kDa

**Gene Summary:**

Receptor for IL1A, IL1B and IL1RN. After binding to interleukin-1 associates with the coreceptor IL1RAP to form the high affinity interleukin-1 receptor complex which mediates interleukin-1-dependent activation of NF-kappa-B, MAPK and other pathways. Signaling involves the recruitment of adapter molecules such as TOLLIP, MYD88, and IRAK1 or IRAK2 via the respective TIR domains of the receptor/coreceptor subunits. Binds ligands with comparable affinity and binding of antagonist IL1RN prevents association with IL1RAP to form a signaling complex. Involved in IL1B-mediated costimulation of IFNG production from T-helper 1 (Th1) cells (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**


Circular map for MR227513